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ABSTRACT

Two Mississippi Gulf Coast Junior College institutional research reports are presented, delineating "Operation of the Plant" expenses for 1970-78 and analyzing past and projected maintenance and capital expenditure repair costs. Data in the first report reveal that the percentage of the Unrestricted Educational and General Budget consumed by "Operation of the Plant" expenses rose from 10.9% in 1971 to 16.5% in 1978, well above the 15% standard used by the college for many years. Electricity and gas price increases, averaging 38.5% annually, as well as an increase in the square feet to be heated, cooled, and maintained, were the major contributors to this increase in expenditures. Data in the second report indicate that: (1) maintenance costs, which rose from $138,600 in 1971 to $389,085 in 1978, will steadily increase to a possible high of $659,196 in 1984; (2) capital expenditure repair costs, though fluctuating as funds are provided by the Building Committee and the full Board, will rise to $472,000 in 1984 from $20,230 in 1974; and (3) combined maintenance and repair costs will rise to $1,131,196 by 1984. Growth in students, additional buildings, and inflation account for most of this increase. Data tables are presented throughout the document. (JP)

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ANALYSIS OF "OPERATION OF THE PLANT" EXPENSES 1970-78

Institutional Research Report No. 78/79-7

MAINTENANCE AND REPAIR COST STUDY FOR THE COLLEGE:
E & G MAINTENANCE AND CAPITAL REPAIR COSTS
HISTORICAL FROM 1974-75 THROUGH 1977-78; PROJECTIONS 1978-79 THROUGH 1983-85

Institutional Research Report No. 78/79-11

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JC 790 307

Mississippi Gulf Coast Junior College

MISSISSIPPI
GULF COAST JUNIOR COLLEGE
CENTRAL OFFICE

Title: ANALYSIS OF "OPERATION OF THE PLANT" EXPENSES 1970-78

Institutional Research Report No. 78/79-7

JANUARY 30, 1979

1. PROBLEM. The President has used 15% as a standard for "Operation of the Plant" in the Unrestricted Educational and General Budget for several years. In the initial budgets reported to the board for most of this decade, the percentage for Operation of the Plant has been reported in the 15% range. The cost of utilities and the impact of inflation have raised serious doubts as to the validity of this standard; hence this study was done. Appreciation is noted to Mr. Jerry Bryan for his good advice on the approach to be used and to Ms. Nancy Lee for providing the source documents used.

2. DISCUSSION. Comments to follow are based on Table 1, An Analysis of "Operation of the Plant" expenses in the Seventies. Source of the information provided is the end of year board report for the dates identified.

a. Functions in Operation of the Plant are broken out and are shown horizontally. All figures are actual expense , not budget, as taken from the end of the year board reports. Differences between 1970-71 and 1977-78 are shown in dollars and percentage. Also, differences from 1974-75 through 1977-78 are shown in dollars and percentages, with an average percent change per year for these years.

b. Total E&G expenditures are shown by year and the percentage of the Operation of the Plant to the total is shown.

COMMENT. It is noted that the percentage of expense for operation of the plant has increased from 10.9 to 16.5% in the reporting years with the last three years exceeding 15%, as follows:

1975-76	1976-77	1977-78
15.5%	16.6%	16.5%.

This gives rise to question the validity of the standard used for past years. Perhaps the consultants can give some advise as to revised percentage to shoot for in the future years; or, perhaps the Business Office can recommend a more appropriate percentage for future years.

c. Because electricity and gas have increased so dramatically in these years, the costs, by location, for these costs are shown next. The same comparative changes for 1970-71 through 1977-78 and 1974-75 through 1977-78 are shown with average increases for the latter years. The total electricity and gas expense is then shown as a percent of the total E&G expenditure and on the following line as a percent of the total operation of the plant expense.

COMMENT. Several significant facts are highlighted here:

(1) From 1970-71 through 1978 the following changes occurred:

	1970-71	1974-75	1977-78	Diff. 70-78	Diff. 74-78	Avg.% last 4 years
Tot.E&G Exp.	$3,966,555	$5,658,148	$8,408,858	+112%	+48.6%	12.2%
Tot.Op.ofPlant	432,176	742,773	1,389,438	+221%	+87 %	21.8%
% Op. of Plant to Tot. E&G	10.9%	13.1%	16.5%			
Tot. Elec. & Gas Only	107,682	218,275	554,366	+415%	+154%	+38.5%
% Elec. & Gas to Tot. Op. of Plant	24.9%	29.4%	39.9%			
% Elec. & Gas to Tot. E & G	2.7%	3.9%	6.6%			

COMMENT. Total E & G Unrestricted expenses increased 112% from 1970 to 1978; 48.6% from 1974-78 or 12.2% per year for these years. Operation of the Plant increased 221% from 1970-78; 87% from 1974-78, or an average increase of 21.8% for these years. Electricity and gas increased 154% from 1970-78; 87% in the past four years, for an average annual increase of 38.5%. That these costs are increasing so rapidly is alarming!

Along with these increased costs have come greatly increased square feet to be heated, cooled and maintained. A correlation needs to exist between costs and square footage, but the author has not developed one yet. For example, Jefferson Davis gas and electricity costs increased 569% from 1970 to 78; Jackson County increased 436%; but so, too, has their square footage.

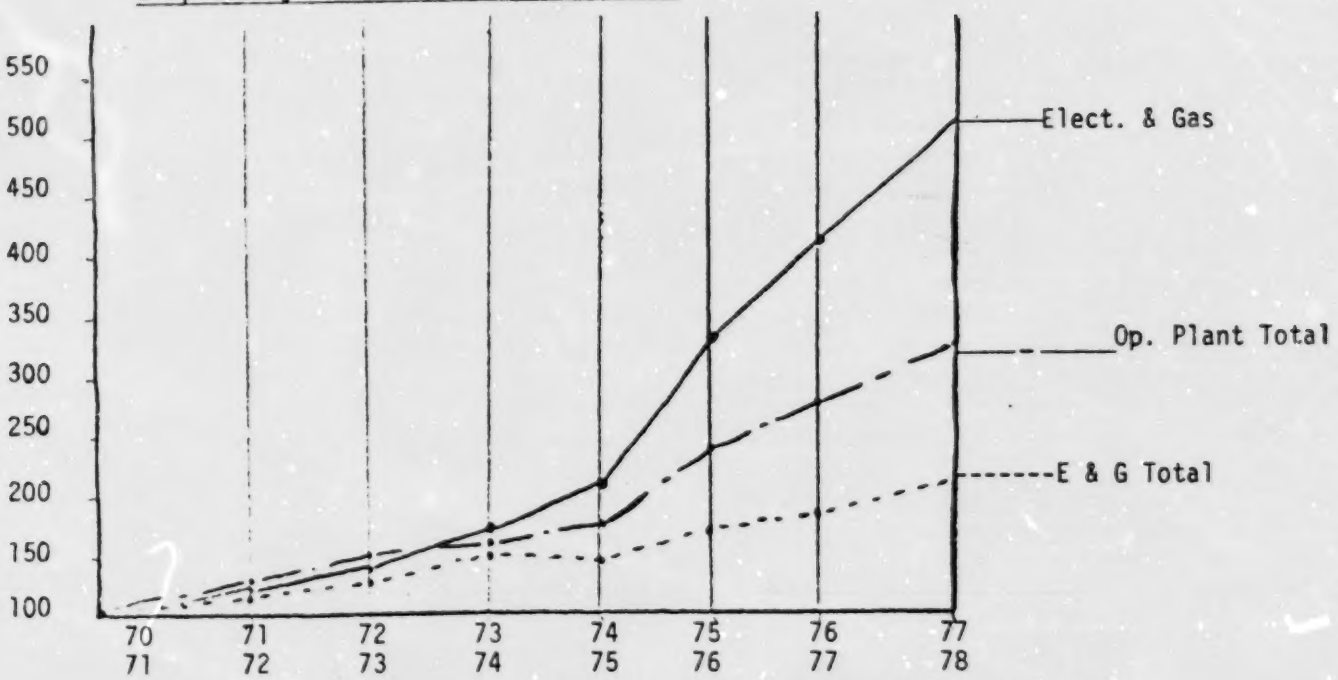
One true indicator does exist - George County Occupational Training Center has two buildings; square footage has not changed! Cost of electricity and gas has increased from $10,333 in 1974-75 to $17,099, in 1977-78; an increase of 65.5%; an annual average of 16.4%. Perhaps this is a good indicator!

(2) Gas, Oil, and Diesel has increased 138% from 1970-78; but only 9.5% from 1974-78. This was a surprise to the author.

(3) Perhaps one good way to percieve the suddenly increasing nature of these costs is to look at them as indexes, with 1970 being the base year of 100. By dividing each following year into the base year, the indexes are arrived at.

	70-71	71-72	72-73	73-74	74-75	75-76	76-77	77-78
E & G	100	115	137	150	142	173	181	212
Op.of Plant	100	120	150	155	172	246	276	321
Elec.& Gas	100	117	144	160	203	338	412	515.

Graphically these data look like this:



COMMENT. Note how closely the three indexes followed each other to 1973-74; and then the index increase for electricity and gas drives ever upward at a much sharper curve than the other two.

3. The first thought to come to the mind of the author is to put great stress on energy conservation; and this must be done. But, energy conversation has been a matter of management attention for some years as evidenced by development of the Energy Conservation Program several years ago and publication of Statement No. 243, Energy Conservation Program in the Administrative Handbook. Perhaps the committees and council established therein might provide an avenue to put added stress on this vital subject.

DISTRIBUTION:

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An Analysis of "Operation of the Plant" Expenses in the Seventies

Source of information: End of Year Report Reports for dates shown

Operation of the Plant Function	July 21, 71 1970-71	July 19, 72 1971-72	July 18, 73 1972-73	July 14, 74 1973-74	July 23, 75 1974-75	July 1, 76 1975-76	July 20, 77 1976-77	Aug. 19, 78 1977-78	Diff. Last 8 Yrs. 70-71 to 77-78 Amt. &	%	Diff. Last 4 Yr 74-75 to 77-78 Amt. &	%
Supervision	30,864	40,033	46,444	53,561	64,823	68,505	70,580	80,644	+ 49,780	+161%	15,821	24.4%
Janitorial Service	74,488	105,878	124,657	134,439	163,310	210,462	225,433	246,492	+172,004	+231%	83,182	50.9%
Bid Equipment Rep. & Maintain	87,741	92,977	131,838	122,343	148,309	163,156	170,549	232,959	+145,218	+166%	84,650	57.1%
Care & Maint. of Grounds	19,995	18,653	21,620	33,088	50,937	48,307	57,667	73,085	+ 53,090	+266%	22,148	43.5%
Police & Watchmen	32,239	53,753	58,676	67,862	69,984	83,142	84,779	101,264	+ 69,025	+214%	31,280	44.7%
Plant Opr. Expense	139,368	151,088	183,730	197,366	245,410	401,189	504,982	572,048	+432,680	+310%	326,638	133.%
General Trucking	40,455	48,521	100,719	52,015	86,610	76,851	68,342	76,050	+ 35,595	+ 88%	-10,560	-12.2%
Transportation	7,026	8,993	15,227	9,900	11,343	10,412	8,696	15,893	+ 8,867	+126%	4,550	40.1%
Total	432,176	[illegible],896	682,911	670,574	742,773	1,062,029	1,191,031	1,389,438	+957,262	+221%	646,665	87.1%
Op. Plant Index	100	120	150	155	172	246	276	321				
Tot. E & G Exp.	3,966,555	4,552,874	5,424,969	5,968,455	5,658,148	6,843,[illegible]58	7,174,097	8,408,858	+4.442.303	+112%	2,750,710	48.6%
% Opr. of Plant	10.9%	11.4%	12.6%	11.2%	13.1%	15.5%	16.6%	16.5%				
Tot. E & G Index	100	115	137	150	142	173	181	212				
	Electricity & Gas	Electricity & Gas	Electricity & Gas	Electricity & Gas	Electricity & Gas	Electricity & Gas	Electricity & Gas	Electricity & Gas				
Perkinston	42,947	49,258	58,927	62,466	82,921	100,315	20,558	158,180	+114,233	+260%	75,259	90.8%
Jefferson Davis	28,167	38,157	48,616	45,975	48,846	115,123	149,417	188,304	+160,137	+569%	139,458	286. %
Jackson County	35,568	38,901	43,104	5[illegible]603	76,175	136,623	159,744	190,783	+155,215	+436%	114,608	150. %
George County OTC	--	--	4,869	8,395	10,333	12,204	13,809	17,099			6,766	65.5%
Total	107,682	126,316	155,516	172,439	218,275	364,265	443,528	554,366	+446,684	+415%	336,091	154. %
Electricity & Gas % to Total E & G Exp.	2.7%	2.8%	2.9%	2.9%	3.9%	5.3%	6.2%	6.6%				
Electricity & Gas % to Opr. Plant Tot.	24.9%	24.3%	22.8%	25.[illegible]%	29.4%	34.3%	37.2%	39.9%				
Electricity & Gas Index	100	117	144	160	203	338	412	515				
Value of Plant less construction in progress per State Audit	8,012,470	10,307,088	10,295,603	12,972,323	15,082,327							
% Opr. of Plant to Value of Plant	5.39%	5.04%	6.63%	5.17%	4.92%*							
Gas, Oil, & Diesel	[illegible]1,256	15,249	14,702	19,[illegible]37	24,511	32,680	25,446	26,837	+ 15,581	+138%	2,326	9.5%

*Last Audit

MISSISSIPPI
GULF COAST JUNIOR COLLEGE
CENTRAL OFFICE

Title: MAINTENANCE AND REPAIR COST STUDY FOR THE COLLEGE: E & G MAINTENANCE AND CAPITAL REPAIR COSTS: HISTORICAL FROM 1974-75 THRU 1977-78; PROJECTIONS 1978-79 THROUGH 1983-85

Institutional Research Report No. 78/79-11

FEBRUARY 15, 1979

1. PROBLEM. By his memorandum of September 14, 1978, the President informed the author of a request made by Russell Quave in the September 11, 1978, Building Committee Meeting, that a study of the cost of maintenance in the college be made. The information contained herein provides both E & G maintenance and Capital repair estimates, the latter being finally worked out by the Executive Deans and Directors of Finance on February 13, 1979.

2. DISCUSSION. Assumptions and major considerations contained herein are:

a. Section 37-29-415, Preparation of the Budget, Mississippi Code 1972, Annotated, is quoted in part. Preparation of an annual budget ..."for capital outlays for land, buildings, initial equipment for new buildings and major repairs, ..." will be made. Several major building program projects in recent years have made major changes to facilities. For example, the addition of air conditioning and updating of dorms at Perkinston Campus took care of many items of repair as part of the project; at Jefferson Davis, the Additions and Alterations project that created the Commons and the administrative offices, and others, involved additon of new buildings, knocking out existing walls, etc.; and at Jackson County Campus, the creation of the administrative suite and addition of the second floor in "B" Building did the same. Accordingly, costs for these projects are not included in this report since they were previously reported "en toto" to the Board.

b. Only those items expending Capital funds for major repairs are shown in the Capital portion of the report.

c. The major portion of the Maintenance cost of the college is borne in the Educational and General Budget; specifically in the portion entitled "Operation of the Plant", and more specifically in three specific budget functions: Supervision, Building Equipment, Maintenance and Repair, and Maintenance of Grounds. The costs in these functions are therefore assumed to be the "maintenance" portion of this report. Much of these costs are salaries.

3. In light of the above, the following are included in this report:

a. Maintenance costs, as reported in end of year Board Reports for the three functions mentioned above from 1970-71 through 1977-78, with projected totals for 1978-79 through 1983-84. (See Tables 1 and 2).

b. Capital Expenditure Repair costs for the period 1974-75 through

1977-78, with projections through 1983-84. (See Table 3 for details on what these expenditures were or are projected to be.)

4. The remainder of this report is in three parts, as follows:

   a. Part I - E & G Unrestricted Costs and Comments
   b. Part II - Capital Repair Costs and Comments
   c. Part III - Combined E & G Unrestricted Maintenance and Capital Repair Costs and Comments.

PART I
E & G UNRESTRICTED MAINTENANCE COSTS

5. Attention is invited to Table 1, Maintenance Costs for Years Indicated. As previously pointed out, three budget functions are shown as representing the maintenance costs in the E & G Unrestricted Budget. In compiling this report, there were some small costs in the Auxiliary budget for the Perkinston Cafeteria and housing, but they were negligible and are therefore not included in this report. Some interesting facts revealed in analyzing the information on Table I are:

   a. From 1970/71 to 1974/75, the following changes occurred:

      Value of the Plant - up 88.2%, from $8,012,470 to $15,082,327
      Total Expenditures - up 42.6%, from $3,966,555 to $5,658,148
      Maint. Expenditures - up 90.5%, from $138,600 to $264,069
      Maintenance expenses increased from 1.7% of the total plant cost to 1.8%.

   b. From 1974/75 to 1977/78, the following changes occurred:

      Total Expenditures - up 48.6%, from $5,658,148 to $8,408,858
      Maintenance Costs - up 47.3%, from $264,069 to $389,085.

   c. From 1970/71 to 1977/78, the following changes occurred:

      Total Expenditures - up 112%, from $3,966,555 to $8,408,858
      Maintenance Expense - up 181%, from $138,600 to $389,085.

COMMENT. Obviously these expenses grew due to growth in students, additional buildings and inflation.

   d. Maintenance costs, in terms of percentages of total costs and value of the plant are:

	70-71	71-72	72-73	73-74	74-75	75-76	76-77	77-78
Total Costs	3.5%	3.4%	3.7%	3.5%	4.7%	4.1%	4.1%	4.6%
Value of Plant	1.7%	1.5%	1.9%	1.6%	1.8%	NA	NA	NA

COMMENT. It appears that we can expect future maintenance costs to increase as to total E&G costs up to 5 or 5.5% by 1985; percentage as to value of the plant should increase to approximately 2.5% by 1985.

e. Percentage of maintenance costs, by location, for selected years are:

	1970-71	1972-73	1975-76	1977-78
Central Office	33,112-23.9%	51,914-26%	47,564-17%	49,079-12.6%
Perkinston	59,980-43.3%	84,333-42.2%	122,175-43.6%	174,312-44.8%
Jeff Davis	16,451-11.9%	32,889-16.5%	57,306-20.5%	79,563-20.9%
Jackson Cty.	30,103-21.7%	35,011-17.5%	52,933-18.9%	85,108-21.9%
George Cty.	--	--	--	1,023- .3%
TOTAL:	138,600	199,902	279,978	389,085

COMMENT. It is interesting to note that the Perkinston percentage stayed in the low-mid forties; Jackson County stayed close to 21%; Jefferson Davis increased from 11.9% to 20.9% of E&G maintenance money.

6. Previous comments have dealt with historical E&G costs. Based on this historical information two projections through 1983-84 have been developed. The highest projection is based on a four-year average increase of the most recent four years, being added to the costs for 1977-78; the more conservative is based on a seven year average increase, which is somewhat less per year. Both are presented to portray a low and a high projected cost for these functions. It is believed that the high line more nearly approximates what we can expect. Table 2 shows the historical college totals and both projections, from 1970-71 to 1983-84. Following are the projected college maintenance costs by year for both the high and the low projections:

	Low	High
1978-79	424,868	434,081
1979-80	460,651	479,104
1980-81	496,434	524,127
1981-82	532,217	569,150
1982-83	568,000	614,173
1983-84	603,783	659,196.

PART II
CAPITAL EXPENDITURE REPAIR COST SUMMARY

7. Where a study of the E & G maintenance costs shows an orderly progression upwards, based on value of the plant, number of studetns, inflation, and the like, Capital repair costs do not follow a similar pattern. Capital funds are expended after recommendation of the Building Committee and approval of the full Board. Capital monies may go for land, buildings, initial equipment for new buildings and major repairs. Table 3, Capital Expenditure Repair Cost Summary, and Tab 1 to this Table explain the major capital repairs for the period 1974-75 through 1977-78, with projections for 1978-79 through 1983-84. Following are the college totals for these years:

1974-75	$ 20,230
75-76	18,771
76-77	22,906
77-78	171,970

PROJECTED

1978-79	$323,596
79-80	133,640
80-81	320,000
81-82	264,500
82-83	208,000
83-84	472,000.

a. Obviously, these are not all Capital expenditures; only those directly estimated or projected for repairs. Because these monies are spent for repairs, their totals fluctuate upwards and downwards based on actual repair needs that qualify for Capital monies, and each such expenditure must go through the Building Committee and the Board for approval.

b. As pointed out, several of the projects undertaken in the recent building programs on the campuses took care of many "repair" costs that have already been reported on. These repairs may have been in the form of major renovations and/or additions and alterations to existing facilities. These amounts are not shown above.

c. Because of these major programs recently completed, and because many of the college facilities are relatively new, repair costs for the first four years shown have been quite low. But, as the facilities grow older, and as they increase in square footage, and as inflation attacks the college, repair costs are expected to grow in future years, as shown in the estimates worked out on February 13, 1979, by the Executive Deans and Directors of Finance. These costs are expected to range from the low of $133,640 in 1979-80 to $472,000 in 1983-84.

d. It must be pointed out that these expected repair costs are just that--expected costs. One of the Directors of Finance asked a most pertinent question in the early development of this report when he said, "How do I know whether my Carrier air conditioner will break down on June 30, 1982, or July 1, 1982?" What was done was to evaluate the facilities and project, to the best of their collective knowledge, the estimates shown in this report.

e. Many things can change these estimated totals. A roof may hold up longer than anticipated - or a major disaster might cause it to leak much sooner than anticipated. Carpet may not need replacing when projected. Electrical equipment may blow up at any time from lightening strikes or unexpected power surges. But, these estimates appear, to the best of the combined judgements of the persons most involved with their upkeep and maintenance, to be the best judgement calls that can be made now.

8. Perhaps the most significant thing to come from this exercise is a look at the President's past policy of planning for $100,000 most years for special projects using Capital funds. He has in the past attempted to insure that sufficient capital monies are withheld from Capital monies to pay off bonds. The reamining funds have been either spent on special projects held to build up sufficient funds to sell another bond issue, or to pay for a building. By minimizing the amounts of money earmarked for "special projects", he has been most successful in making the most money possible for building up amounts to sell bonds

or to build buildings.

a. But, in light of the amounts shown above as anticipated repair costs throughout the college, it appears that the amount held aside for planning purposes should be increased to $200,000 for these annual allocations for repairs and other Capital expenditures.

9. The author would like to again express appreciation to the Central Office persons who helped by providing historical figures on capital repairs and advice on the legal aspects of Capital expenditures; to the Center Directors who provided invaluable input; and, to the Executive Deans and Directors of Finance whose input was the backbone of the report on Capital repairs.

PART III
COMBINED E & G UNRESTRICTED MAINTENANCE AND CAPITAL REPAIR COSTS

10. By combining the E & G Unrestricted maintenance and the Capital Repair costs, it is believed that a better understanding of the total college expenditures in these areas can be shown. Combined costs are:

TABLE 4
COMBINED E & G UNRESTRICTED MAINTENANCE AND CAPITAL REPAIR COSTS

Year	E & G Maint.	Capital Repairs	Total
		Historical	
1974-75	$264,069	$ 20,230	$284,299
1975-76	279,978	18,771	298,749
1976-77	295,398	22,906	318,304
1977-78	389,085	171,970	561,085
		Projected	
1978-79	434,081	323,596	757,677
1979-80	479,104	133,640	612,744
1980-81	524,127	320,000	844,127
1981-82	569,150	264,500	833,650
1982-83	614,173	208,000	822,173
1983-84	659,196	472,000	1,131,196.

11. By looking at the above figures, it is easy to see that maintenance and repair are big costs and are increasing; for the reasons shown earlier in this report - increased enrollments, more square footage, facilities are getting older, and inflation. It will not be too long before $1 million will be required in this area annually.

12. Only through diligent management of college resources can expenses and costs in this area be minimized. A most needed element is a comprehensive preventive maintenance program throughout the college, with maintenance and other persons being continually imparted to minimize wear on college facilities and thereby effect all savings possible in the maintenance and repair area.

13. SUMMARY. This report has attempted to cite the legal basis for capital repair costs, to identify them, to identify the E & G Maintenance costs and to project them into the future. Big money is involved, and more will be required in the future. Two recommendations are made:

First, that the President set aside $200,000 annually to be spent only with his approval and approval of the building committee and the board for capital repairs (special projects) instead of the $100,000 identified in past years, and

second, that the college continue to work toward that comprehensive maintenance as has been done in the past.

DISTRIBUTION:

Selected portions to the Board of Trustees (Tables 1, 3 and 4)
Administrative Council
Directors of Finance

TABLE 1

MAINTENANCE COSTS - EXPENDITURES - E & G BUDGETS FOR YEARS INDICATED

BOARD REPORT YEAR	July 21, 1971 1970-71	July 19, 1972 1971-72	July 18, 1973 1972-73	July 14,1974 1973-74	July 23,1975 1974-75	July 1,1976 1975-76	July 20,1977 1976-77	July 19,1978 1977-78
Supervision								
Central Office	7,694	8,415	9,051	10,407	1,624	12,674	13,169	13,807
Perkinston	8,456	9,067	9,495	10,257	11,292	14,232	13,932	18,380
Jefferson Davis	7,171	15,203	16,744	19,208	26,281	22,272	23,822	26,704
Jackson County	7,541	7,920	11,153	13,685	16,104	19,329	19,657	21,752
George County	--	--	--	--	--	--	--	--
COLLEGE TOTAL:	30,864	42,405	46,444	53,561	64,823	68,507	70,580	80,644
Building Equipment, Maintenance & Repair								
Central Office	25,418	30,828	42,578	32,202	43,594	33,068	28,130	30,758
Perkinston	41,289	46,415	62,402	65,259	66,508	81,270	85,530	121,109
Jefferson Davis	3,642	4,331	11,895	9,551	18,865	24,448	25,280	34,781
Jackson County	18,532	11,383	14,961	15,327	19,346	24,369	30,900	45,278
George County	--	--	--	--	--	--	--	1,032
COLLEGE TOTAL:	87,741	92,977	131,838	122,343	148,309	163,156	169,840	232,959
Maintenance of Grounds								
Central Office	--	--	285	90	10,000	1,722	2,305	4,514
Perkinston	10,235	12,018	12,436	12,971	22,358	26,673	26,375	34,823
Jefferson Davis	5,638	1,946	4,250	9,602	11,038	10,586	13,274	18,078
Jackson County	4,120	4,687	8,897	9,581	7,041	9,325	13,024	15,669
George County	--	--	--	--	--	--	--	--
COLLEGE TOTAL:	19,995	18,653	21,620	33,088	50,937	48,307	54,978	73,085
AGGREGATE COSTS								
Central Office	33,112	39,243	51,914	42,699	55,218	47,564	43,604	49,079
Perkinston	59,980	67,500	84,333	88,487	100,158	122,175	125,837	174,317
Jefferson Davis	16,451	21,480	32,889	38,361	56,184	57,306	62,376	79,56
Jackson County	30,103	23,990	35,011	38,593	42,491	52,933	63,581	85,108
George County	--	--	--	--	--	--	--	1,023
COLLEGE TOTAL:	138,600	154,035	199,902	208,992	264,069	279,978	295,398	389,085
TOTAL EXPENSES:	3,966,555	4,552,874	5,424,969	5,968,455	5,658,148	6,843,558	7,174,097	8,408,858
Inventory in Plant Costs Less Construction in Progress; Source: State Audit	8,012,470	10,307,088	10,295,603	12,972,323	15,082,327 (Last Audit)			

NOTE: Above are unrestricted E & G Budget Costs Only.

TABLE 2

Actual and Projected Unrestricted Budget Maintenance Costs

Actual 1970-71 through 1977-78 - Projected 1978-79 through 1983-84 for three functions in operation of the plant; Supervision, building Equipment Maintenance and Repair and Maintenance of Grounds.

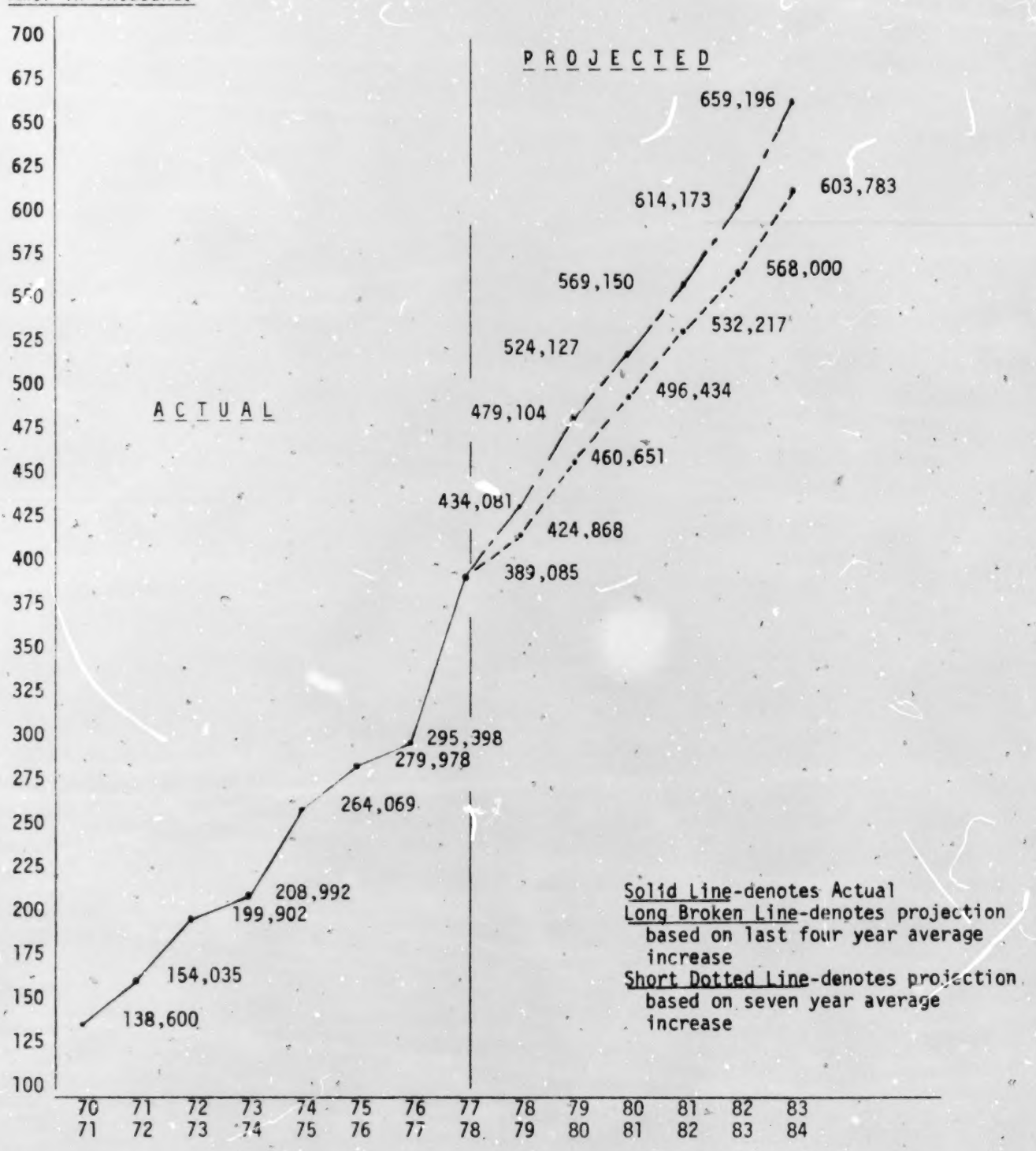

TABLE 3

Capital Expenditure Repair Cost Summary
1974-75 through 1983-84

History

	Central Office	Jackson County	Jeff. Davis	Perkinston	Geo. Cty.	Total
1974-75	$ 8,820	$ 9,294	$ -0-	$ 2,116	$ -0-	$ 20,230
1975-76	3,354	13,341	2,076	-0-	-0-	18,771
1976-77	7,361	6,000	6,884	2,661	-0-	22,906
1977-78	536	67,032	5,252	98,450	700	171,970
4-Year Total:	$20,071	$95,667	$ 14,212	$103,227	$ 700	$233,877
% By Location	8.6	40.9	6.1	44.1	.3	

Projected

1978-79	-0-	$156,536	$138,360	$ 28,000	$ 700	$323,596
1979-80	-0-	23,700	75,000	31,940	3,000	133,640
1980-81	-0-	104,000	200,000	15,000	1,000	320,000
1981-82	-0-	61,500	127,000	75,000	1,000	264,500
1982-83	-0-	89,500	93,000	22,500	3,000	208,000
1983-84	-0-	183,000	60,000	199,000	30,000	472,000

TAB 1 - TABLE 3

Capital Expenditure Repair Cost Summary
Major Items, Year, and Location

1974

Central Office. $8,820 - Fencing for Farm $4,109, Transportation Building repair $1,607, repair Perkinston well $1,279. Small items $1,825.

Jackson County Campus. $9,294 - Carrier Air Conditioner repair $4,827, roof repairs C & D Buildings $1,518, boiler repairs $1,058. Material for water treatment, air conditioner $1,104. Small items $787.

Jefferson Davis Campus. None.

Perkinston Campus. $2,116. Repair campus water system $916; motor for water well and motors for returns on air conditioning and heating units $1,200.

George County. None.

1975

Central Office. $3,354. Electrical Repair Manpower Shop $1,795; paint and repair transportation $1,559.

Jackson County Campus. $13,341; Carrier air conditioner repairs $1,248; roofing materials $11,398; air conditioner repair $695.

Jefferson Davis Campus. $2,076. Vacuum pump for air conditioner chiller system $900; replace carpet cleaner and mower $1,176.

Perkinston Campus. None.

George County. None.

1976-77

Central Office. $7,361. Electrical highline repair $659; repair faculty housing $4,057; Darby Hall air conditioner repair $2,645.

Jackson County Campus. $6,000. All roof repair.

Jefferson Davis Campus. $6,884. Water well repairs $6,884.

Perkinston Campus. $2,661. Repair roof on Hinton Hall $2,661.

George County. None

1977-78

Central Office. $536.00. Guest House repairs $536.

Jackson County Campus. $67,032. Boiler repairs $756; repair walk-in refrigerator and freezer $761; repair water leak under floor in book-store $418; roof D Building $27,797, painting $10,500, cooling tower $18,000. Repair old mechanical system $8,800.

Jefferson Davis. $5,252. Water well repairs $5,252.

Perkinston Campus. $98,450. Repair air conditioner $2,650; repair of house #1 $2,800; general repair to faculty housing $12,000; general

bathroom and other dorm repairs $44,000; paint stadium, Dees Hall, Denson, Harrison, and Owen Halls $12,000; swimming pool renovation $17,000; re-roof 8 college houses $8,000.

George County. None.

1978-79 Central Office. None.

Jackson County. $156,536. Repair Carrier air conditioner $4,173; repair sewage lift station $445; cafeteria equipment repair $800; exhaust system welding lab $10,500; roof repairs $7,500; water well $46,500; ventilation system TV studio $6,000; carpet Media Center $7,633; correct acoustical problem B Building $5,000; office space D Building $2,500. Repairs to Vo-Tech equipment $8,885; repair air conditioner and control in A, B, and D Buildings $27,900; overhaul 3 chill water circulating pumps $1,500; repair to old mechanical system $26,200.

Jefferson Davis. $138,360. Repair chiller unit $8,000; repair water damage to gym floor $8,000, gym roof and walkway maintenance $15,000, roofing repair to M, N, & O buildings $100,000; swimming pool heater $3,560; carpet repairs library $1,000; swimming pool repair $2,800.

Perkinston. $28,000. Paint $18,000; cover porch of Smith Bldg. $2,000; fire alarm systems for dorms $8,000.

George County. $700. Repair air conditioning equipment $700.

1979-80 Jackson County. $23,700. Stand by motors, 1-10 hp and 1-3hp $900; repair Carrier air conditioner $1,000; repair cafeteria equipment $1,000; refinish floor in PE Building $1,800; rework D12 into 2 classrooms and 5 offices for respiratory and therapy program $4,000; replace filler tank, valves and liner for pool $3,500; ventilation system for mechanical room $2,500; cross connect hot water system so original buildings can be heated with new boiler in an emergency $9,000.

Jefferson Davis. $75,000. Roofing $50,000; air conditioning/heating maintenance and repair $25,000.

Perkinston Campus. $31,940. Carpet LRC $14,900; gutters and down spouts $17,040.

George County. $3,000. Roof repair $3,000.

1980-81 Jackson County. $104,000. Replace two original Worthington air conditioner units and boiler $58,000; roof repairs $10,000; overhaul 2 air conditioners in P.E. Building $8,000; replace and repair equipment in cafeteria $15,000; sewage plant repairs $1,000; replace 10 wooden doors in A Building $1,000; carpet for bookstore $3,000; water heater for P.E. Building $8,000.

Jefferson Davis. $200,000. Roof repairs $50,000; air conditioner repair $10,000; carpet repair or replacement $140,000.

Perkinston. $15,000. Replace floor covering - Hinton Hall $15,000.

George County. $1,000. Repair air conditioning $1,000.

1981-82 Jackson County. $61,500. Sewage plant $1,000; contro's and parts for room air conditioner $7,500; replace carpet in library $15,000; kitchen equipment for cafeteria $25,000; roofing repairs F & L Buildings $10,000; replacement parts for pool $3,000.

Jefferson Davis. $127,000. Roofing repairs $50,000; $10,000 on air conditioner; update kitchen equipment $3,000; carpet replacement $64,000.

Perkinston. $75,000. Roof repair McGehee and Heidelberg Hall $75,000.

George County. $1,000. Repair air conditioner equipment in shops $1,000.

1982-83 Jackson County. $89,500. Replace original air conditioner $60,000; replace and repair equipment in cafeteria $2,000, sewage plant repairs $1,000; replace 15 doors in B & C Buildings $1,500; renovate B & D Buildings (if get new health related occupation building) - $25,000.

Jefferson Davis. $93,000. Roofing repairs $50,000; $10,000 air conditioner repairs, update kitchen equipment, $3,000; replace water heater in P.E. Dept. $5,000; update kitchen equipment $3,000; carpet replacement $22,000.

Perkinston. $22,500. Re-roof old gym $7,500; replace doors, windows, and restrooms in old gym $15,000.

George County. $3,000. Repair major equipment in shops.

1983-84 Jackson County. $183,000. Repair and replace cafeteria equipment $2,000; sewage plant repairs $1,000; air conditioner repairs $3,000; carpet Fine Arts $7,000; re-roof buildings A, B, & C (will be 20 years old) $150,000; repair underground water pipe system $10,000; roof repairs on D & G Buildings $10,000.

Jefferson Davis. $60,000. Roof repairs $50,000; air conditioner repair $10,000.

Perkinston. $199,000. Carpet for Owen and Moran Halls $40,000; replace windows, frames, and new ceiling tile where needed in Gregory Chapel $4,000; new pump and well $140,000; replace air conditioning $15,000.

George County. $30,000. Re-roof Buildings A & B.

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